

From: [ANDERSON Jim M](#)
To: [Eric Blischke/R10/USEPA/US@EPA](#); [Chip Humphrey/R10/USEPA/US@EPA](#)
Cc: [MCCLINCY Matt](#); [POULSEN Mike](#); [PETERSON Jenn L](#); [GAINER Tom](#)
Subject: FW: Proposed subsurface sediment to surface sediment loading approach
Date: 07/15/2008 01:42 PM
Attachments: [2008-06-18_Sub_sed_loading_approach.pdf](#)

Chip & Eric,

Matt & I reviewed LWG's attached proposed approach for analyzing potential advective loading from subsurface sediment to surface sediment. **LWG's proposal looks reasonable.** My only concern is that the LWG sets a necessary condition for them to conduct a loading evaluation..., to be that surface sediment concentrations are initially lower than underlying subsurface concentrations. I think it's GW concentrations, not subsurface vs surface concentrations that that also govern loading. Contamination in subsurface sediment will partition to clean or undersaturated GW passing thru subsurface contamination. Hydrophobic chemicals in GW will partition available organic matter in surface sediment regardless of whether the surface sediment is more or less contaminated than the subsurface sediment. Furthermore, GW may transport subsurface sediment contamination to the surface thru physical processes (i.e., particulates like colloids vs dissolved phase). **However, this probably won't matter in the end, because we'll build AOPCs out of surface sediment contamination, & then look at recontamination in RD/RA.**

Jim

-----Original Message-----

From: Valerie Oster [<mailto:voster@anchorenv.com>]
Sent: Thursday, June 19, 2008 8:26 AM
To: humphrey.chip@epa.gov; blischke.eric@epa.gov
Cc: Rick Applegate; Patty Dost (Schwabe); wolffg@plu.edu; J Betz; Bob Wyatt; valerie; ANDERSON Jim M; Keith Pine; david.ashton@portofportland.com; Jim.McKenna@portofportland.com
Subject: FW: Proposed subsurface sediment to surface sediment loading approach

Chip, Eric,

Please see below and attached.

thanks
valerie

Valerie Thompson Oster
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From: Keith Pine
Sent: Thu 6/19/2008 7:20 AM
To: Valerie Oster
Subject: Proposed subsurface sediment to surface sediment loading approach

Valerie- please forward to EPA. thanks, Keith

Eric and Chip,
The LWG's proposed approach for analyzing potential advective loading from subsurface sediment to surface sediment is attached for your review. We intend to present the results from this evaluation in the draft RI report and use the developed loading values as external load inputs to the surface sediment layer in the Abiotic Fate & Transport Model. Cheers, Keith

Keith Pine
Anchor Environmental, L.L.C.

This communication is made under the framework of the LWG Participation Agreement and in the parties' common interests in meeting LWG member obligations under the Administrative Order on Consent and in anticipation of litigation concerning liability for the Portland Harbor Superfund site. This communication is intended and believed by the parties to be part of an ongoing and joint effort to develop and maintain a common legal strategy and contains strategies, work product and legal advice within the "common interest" extension of the attorney-client privilege and the work product doctrine. This communication may include attorney-client communications. The information is intended to be for the use of the individual or entity named above. If you are not the intended recipient, please be aware that any disclosure, copying, distribution or use of the contents of this information is prohibited. If you have received this electronic transmission in error, please notify us by electronic mail at kpine@anchorenv.com <<2008-06-18_Sub_sed_loading_approach.pdf>>